DATES

From: _____

To: _____

Rockwell International

Collins Amateur Products

AMATEUR RADIO STATION

LOG

Standard Frequency and Time Stations

2,500.00 KHz

WWV	Fort Collins, Colorado, U.S.A.
WWVH	Kekaha, Kavai, Hawaii, U.S.A.
JJY	Tokyo, Japan
MSF	Rugby, United Kingdom
OMA	Praha, Czechoslovak S.R.
ZVO	Olifantsfontein, Republic of South Africa

3,330.00 KHz

CHU	Ottawa, Ontario, Canada

4,500.00 KHz

VNG	Lyndhurst, Victoria, Australia

5,000.00 KHz

WWV	Fort Collins, Colorado, U.S.A.
WWVH	Kekaha, Kavai, Hawaii, U.S.A.
JJY	Tokyo, Japan
LOL	Buenos Aires, Argentina
MSF	Rugby, United Kingdom
ZVO	Olifants Fontein, Republic of South Africa

7,335.00 KHz

CHU	Ottawa, Ontario, Canada

7,500.00 KHz

VNG	Lyndhurst, Victoria, Australia

10,000.00 KHz

WWV	Fort Collins, Colorado, U.S.A.
WWVH	Kekaha, Kavai, Hawaii, U.S.A.
ATA	New Delhi, India
JJY	Tokyo, Japan
LOL	Buenos Aires, Argentina
MSF	Rugby, United Kingdom
RWM	Moscow, U.S.S.R.

12,000.00 KHz

VNG	Lyndhurst, Victoria, Australia

15,000.00 KHz

WWV	Fort Collins, Colorado, U.S.A.
WWVH	Kekaha, Kavai, Hawaii, U.S.A.
JJY	Tokyo, Japan
LOL	Buenos Aires, Argentina
RWM	Moscow, U.S.S.R.

14,670.00 KHz

CHU	Ottawa, Ontario, Canada

25,000.00 KHz

WWV	Fort Collins, Colorado, U.S.A.

20,000.00 KHz

WWV	Fort Collins, Colorado, U.S.A.
WWVH	Kekaha, Kavai, Hawaii, U.S.A.

THE COMPLETE ONE UNIT STATION

General Coverage Receiver

Full Digital Synthesis

Microprocessor Frequency Control

Built-in AC/DC Power Supplies

Pro-mark™

KWM-380

Designed with Potential Band Expansion in Mind

High Performance Receiver Front End

HF Transceiver | Power Supplies | Speaker | Split VFO | General Coverage Receiver

Specifications

Transmit Performance

Range: SSB or CW 160- through 10-metre amateur bands.

Power Requirements: 105, 115, 125, 210, 220, 230, 240, 250, ±5% V ac. (Internal strapping option), 50 to 60 Hz, 12 to 15 V dc (connector strapping). 120-W input in receive max; 600-W input in transmit max.

Frequency Stability: Stability is within ±150 Hz over the temperature range of 0 to 50 °C.

Output Impedance: 50 ohms nominal.

Power Output: 100 W PEP nominal from 1.6 to 30 MHz. In CW or RTTY, there is automatic turndown to 50 W after 10 seconds, 50-percent duty cycle, keydown 15 minutes max.

With the optional blower kit, power is 100 W average, 50-percent duty cycle, keydown 1 hour max at 25 °C, 1/2 hour max at 50 °C for all modes.

Unwanted Signal Suppression (minimum values below output):

Carrier suppression	50 dB
Undesired sideband, 1 kHz ref	55 dB
Harmonics (all)	40 dB
Mixer products	55 dB

Third-Order Distortion: 25 dB below each tone of a 2-tone test.

Audio Inputs:

Microphone - Low-impedance type, internal strap for HI-Z.
Line - 600-ohm input unbalanced impedance; level of 40 mV sufficient to produce full output.

Audio Frequency Response: Not more than 5 dB variation from 300 to 2400 Hz.

Features

Microprocessor Control System

- Simplifies frequency selection with 4-speed tuning.
- Provides dual vfo operation.
- With an optional control interface kit and a customer-supplied external 16-button keypad, the microprocessor control system enables:
  - The keyboard to be used to enter any frequency.
  - Capability to store and recall up to ten frequencies.

Built-in Split VFO Memory Capability

- The KWM-380 provides two frequency registers.
- You can transceive on one frequency on the A register and on any other frequency on the B register.
- Or you can split frequency with receive on one frequency on A and transmit on any other frequency on B, or reverse with receive on B and transmit on A.

Passband Tuning and IF Selectivity

- If selectivity, to eliminate undesired signal interference.
- Passband tuning can move continuously from LSB to USB.
- Optional if filters can be selected independent of operating mode.

Rockwell-Collins

tradition of

Excellence

In the 1960's, the tradition of excellence was demonstrated when Collins introduced the S-line and KWM-2A to the amateur radio world.

Now, with the introduction of the Pro-mark KWM-380 transceiver, Rockwell-Collins is carrying on the tradition again. With its state-of-the-art design and operational features, the Pro-mark KWM-380 is the "new standard" of excellence in the amateur radio world. It is a "station" completely contained in one unit: you no longer need a cluttered station with separate units. The fully synthesized KWM-380, with microprocessor control, provides four tuning rates selectable down to 10 Hz. It has everything you need to set up a complete professional operating station, including an internal split-frequency vfo function and a built-in ac/dc power supply and speaker. All frequencies are derived from a single master oscillator, allowing all bands and frequencies to be calibrated by adjusting a single crystal. The all-solid-state KWM-380 is a complete professional quality amateur station in one attractive unit. The Pro-mark KWM-380 is a professional quality station for the serious ham.

Options

Noise Blanker

Designed for use in transceivers located in high impulse rf noise environments.

Speech Processor

Processor in audio circuit path to increase average "talk-power" in SSB transmission (available in 1980).

IF Filters

A choice of if filters available, including:

BW at -3 dB (min)	BW at -60 dB (max)
1.7 kHz	3.4 kHz
360 Hz	1.25 kHz
140 Hz	600 Hz
6.0 kHz	25 kHz

Accessories

AC-2801 rack mount

AC-2808 blower kit

MM-280 and MM-281 handheld microphones

SM-280 and SM-281 desktop microphones

AC-2827 CW key

AC-2828 microphone foot switch

AC-2829 and AC-2830 headphones

Maintenance manual

Specifications

Receiver Performance

Range: 2.0 to 30.0 MHz, 0.5 to 2.0 MHz at reduced sensitivity.

Frequency Accuracy: Accurate to within ±5 Hz when the 39.6-MHz oscillator and the 455.0-MHz oscillator are set within ±3 Hz. Warmup time is 10 minutes.

Antenna Impedance: 50 ohms.

Sensitivity: Not more than 0.5 μV for 10-dB (s+n)/n at antenna input for SSB and CW, 2.0 to 30 MHz. Broadcast band attenuation 30 dB nominal.

Selectivity: In operating modes of USB, LSB, CW, and AM.

BW at -3 dB (min)	BW at -60 dB (max)
2.1 kHz	4.4 kHz
8 kHz	50 kHz

IF and Image Rejection: Greater than 60 dB.

Audio Output: Not less than 3.0 W into 4-ohm load at 1 kHz, at not more than 10 percent total harmonic distortion. Line audio output, -10 dB mW nominal into 600 ohms.

Audio Frequency Response: Not more than 5 dB variation from 300 to 2400 Hz.

AGC: Audio output variance not more than 8 dB as the rf input varies from 2.0 μV to 100 mV open circuit.

Intermodulation Distortion: Two signals spaced 20 kHz at a level of -10 dB mW each will produce IMD down 50 dB min.

WORKED ALL STATES

STATE	STATION WORKED	DATE	EMISSION TYPE	QSL		REMARKS
				SENT	RCVD	
ALABAMA						
ALASKA						
ARIZONA						
ARKANSAS						
CALIFORNIA						
COLORADO						
CONNECTICUT						
DELAWARE						
FLORIDA						
GEORGIA						
HAWAII						
IDAHO						
ILLINOIS						
INDIANA						
IOWA						
KANSAS						
KENTUCKY						
LOUISIANA						
MAINE						
MARYLAND						
MASSACHUSETTS						
MICHIGAN						
MINNESOTA						
MISSISSIPPI						
MISSOURI						
MONTANA						
NEBRASKA						
NEVADA						
NEW HAMPSHIRE						
NEW JERSEY						
NEW MEXICO						
NEW YORK						
NORTH CAROLINA						
NORTH DAKOTA						
OHIO						
OKLAHOMA						
OREGON						
PENNSYLVANIA						
RHODE ISLAND						
SOUTH CAROLINA						
SOUTH DAKOTA						
TENNESSEE						
TEXAS						
UTAH						
VERMONT						
VIRGINIA						
WASHINGTON						
WEST VIRGINIA						
WISCONSIN						
WYOMING						

WORKED ALL CONTINENTS

CONTINENT						
AFRICA						
ASIA						
EUROPE						
NORTH AMERICA						
SOUTH AMERICA						
OCEANIA						

LOG SHEET

DATE & TIME		STATION CALLED OR WORKED	HIS SIGNALS RST	MY SIGNALS RST	FREQ MHZ	EMIS-SION TYPE	POWER INPUT	REMARKS	QSL	
START	ENDING								SENT	RCVD

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DATE & TIME		STATION CALLED OR WORKED	HIS SIGNALS RST	MY SIGNALS RST	FREQ MHZ	EMIS-SION TYPE	POWER INPUT	REMARKS	QSL	
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ENGLISH BROADCASTS TOWARD NORTH AMERICA

UTC TIME (GMT)	STATION	FREQUENCIES (kHz)
0000-0100	Voice of America	25990, 21460, 17895, 17820, 15205, 11740, 9640, 6130
0005-0155	Spanish Foreign Radio	11880, 9630
0030-0200	HCJB, Ecuador	15115
0100-0130	Radio Canada International	11940, 5960
0100-0330	Radio Havana	11930
0100-0430	A.F. Radio Service	25620, 21570, 15430, 9685, 6030
0130-0150	Voice of Germany	11865, 9605, 9565, 9545, 6100, 6085, 6075, 6040
0200-0255	Radio Peking	17680, 15600, 15060, 12055
0200-0300	Radio Moscow	11770, 11750, 11735, 11720, 9700, 9665, 9530
0200-0300	Radio Brazil	15280
0230-0325	Radio Netherland	9590, 6165
0300-0700	Voice of America	15240, 9670, 5995
0430-0500	Swiss Radio International	11750, 9725
0522-0530	UN Radio	9540, 6055
0555-0835	Voice of Nigeria	15185, 15120, 11770, 7255
0600-0630	Radio Norway	11860 (Mon. only)
0600-0915	Radio Australia	15320
0630-0800	Radio Havana	9525
0900-0915	BBC	11955-9640, 9510, 6195
	Radio Japan	9505

The specific times and frequencies will vary subject to individual stations.

UTC TIME (GMT)	STATION	FREQUENCIES (kHz)
1100-1330	BBC	25650, 21710, 21550, 11775, 11750, 9510, 6195
1100-1400	Voice of America	11715, 9730, 9565, 5955
1100-1500	Radio Moscow	15150, 11770
1200-1215	Vatican Radio	21485
1200-1300	HCJB Ecuador	15115, 11740
1400-1500	Voice of America	11715, 9565
1400-1600	A.F. Radio Service	15425, 15330, 11805, 9700
1430-2200	UN Radio	21670, 15410 (French when in session)
1545-1600	Radio Canada International	17820, 15325
1600-1700	Voice of America	26040, 21485, 17870, 17710
1800-2200	A.F. Radio Service (Wash)	21570, 17765, 15430, 11790
2000-2015	Radio Japan	15105
2010-2150	Radio Havana	17855
2115-2245	Radio Grenada	15045
2230-2300	Israel Radio	21625, 17645, 15485, 11655, 9815
2245-2300	UN Radio	15225, 11920
2300-2400	4VEH, Haiti	11835, 9770
2300-0200	Radio Moscow	15425, 15245, 15100, 12050, 12030, 11960, 11760, 11735, 9685, 9665, 9600, 9530
2330-2430	BBC	15420, 15260, 15070, 11910, 9590, 9580, 7325, 6175, 6120

The specific times and frequencies will vary subject to individual stations.

Rockwell International

Collins Telecommunications
Products Division
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